

Point no. 1 of the drawing objections is noted.

Regarding Point 2 of the drawing objection, reference numerals 108b, 220, 334, 337 and 701 have been added.

Reference numeral 1239 is found in Figure 3h.

Regarding Point 3 of the drawing objection, reference numerals 108, 334b, 331, 330, 201, 525e, 120, 121, and 1209, have been removed.

Reference numeral 356 is discussed in paragraph 56.

Reference numeral 525f is discussed in paragraph 61.

Applicant requests the Examiner to reconsider point no. 4 of the drawing objection (37 CFR 1.83(a)). A secondary heat sink is shown in Figures 1 and 2. Primary heat sinks are shown in Figures 7a, 7b, 9a, 8b, and 9. a vertical cavity surface emitting laser is shown in Figures 3e, 3f, 3g, 3h, 4c and 4d. Apertures in the panel are shown in Figures 4c and 4d. Light reflective adhesive is depicted as 908 in Figure 9.

It is believed that the claimed elements are found in the drawings.

DOUBLE PATENTING

A terminal disclaimer is attached. The fee (small entity) should be charged to deposit account no. 50-0581.

CLAIM OBJECTIONS

The claims objected to have been cancelled.

§ 102 and § 103.

The Examiner rejected claims 1-32 under 35 USC § 102 or § 103 or both.

The newly presented claims contain various elements and limitations not found in the prior art references, including:

A. Thermoelectric Cooler. The claims recite a thermoelectric material located on a heat sink. When a voltage is applied to a thermoelectric material, it experiences a temperature drop, thereby providing a cooling effect. The Bergman patent ('722) discloses a fan but does not disclose use of a thermoelectric material in a device for providing illumination to spaces used by humans.

B. Power Supply. The claims recite the presence of a power supply module,

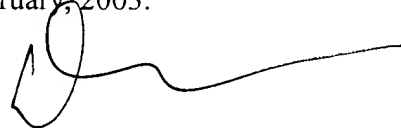
including an AC/DC converter, in the base of the device proximate the connector for installing the device. The Bergman patent does not disclose the power supply.

C. Laser Chips. The claims recite use of vertical cavity surface emitting laser chip (VCSEL) as the light source in the device. The Bergman patent discloses only use of light emitting diodes.

D. Particular Air Chamber Shape/Path. The claims recite an air chamber within a heat sink that has an entrance proximate a fitting for installing the device in a socket for receiving electrical power. From that entrance, air would proceed toward the top of the bulb, turn 90 degrees to move laterally a predetermined distance, then turn 90 degrees to move down toward the bottom of the bulb, and out an exit proximate the fitting. Bergman's air path within his heat sink begins at the bottom of the gear column and travels to the top of the gear column. Bergman does not recite the air path found in Applicant's claims.

Reconsideration of the patent application is requested.

Respectfully submitted this 28th day of February, 2003.



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